



Thoracic Stent Graft System Product Catalog



CE 0123



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We, KAWASUMI LABORATORIES, INC. and SUMITOMO BAKELITE CO., LTD.,
integrated our medical device business as of 1st October 2021,
and start "SB-KAWASUMI LABORATORIES, INC." as the brand new company.

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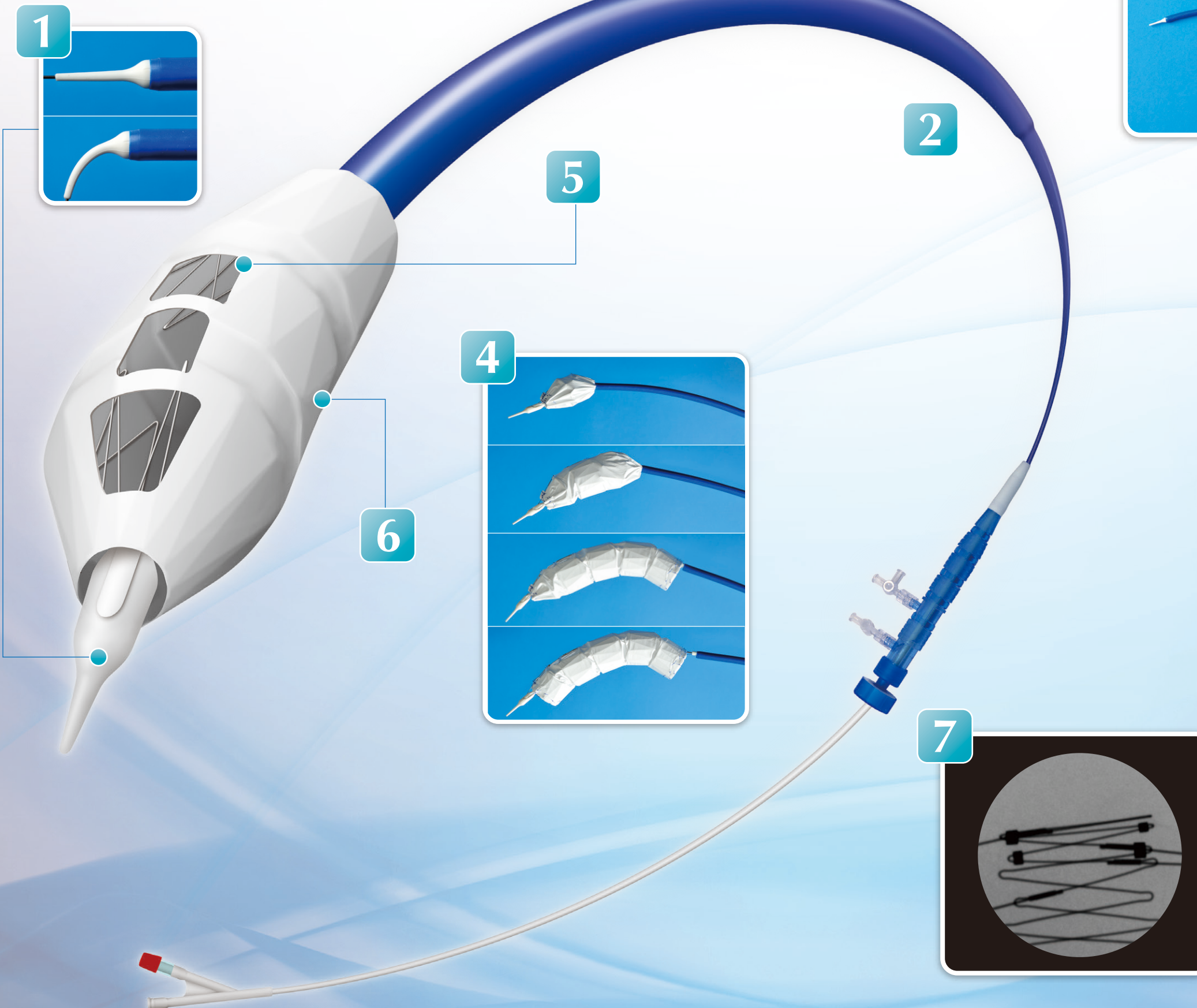
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SEMI-ORDER SYSTEM

Select and apply a specification which has the best approximation to the 3-dimensional curve of the distal arch and the descending aorta.



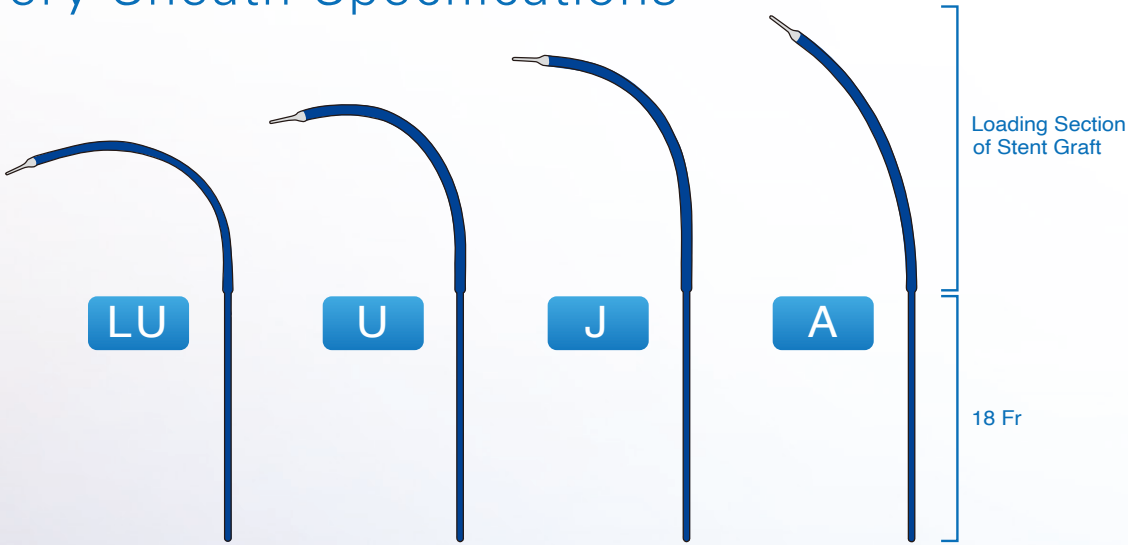
DELIVERY SHEATH

- 1 Tip**
Pliable material makes high trackability to guidewire possible.
- 2 Hydrophilic coating**
Decrease resistance applied to delivery sheath in operation
- 3 Shape of distal end of the sheath**
Variations available for good matching with vessel shape of aimed implantation position.
- 4 Stabilizer line**
As the proximal end of the graft is gradually opened in deployment, stable placement under pulsation is possible.

STENT GRAFT

- 5 Fenestration**
Aligning fenestrations to branch vessels around aimed lesion at aortic arch allows to place in ascending aorta without blocking blood flow into branch vessels.
- 6 Pre-shaped configuration**
64 variations of stent skeleton by combining stent length and curving configuration for good matching with portion or shape of the aimed aorta.
- 7 Marker**
Radiopaque markers make correct positioning possible.

Delivery Sheath Specifications



Sheath Proximal Diameter (Loading Section of Stent Graft)				Sheath Distal Diameter	
Outer Diameter	21Fr	22Fr	23Fr	18 Fr in All Code	
Inner Diameter	18Fr	19Fr	20Fr	Total Length of Stent (mm)	
Stent Graft Diameter	24mm~30mm	28mm~34mm	32mm~42mm	950mm 730mm 580mm	

Stent Graft Specification Table

Group	Skelton	Graft			Length (Approx.)	Fenestration	
	Skelton Number ※1 ※2	Straight (S type)	4mm Tapered (T type)	6mm Tapered (V type)		Spec 【(Shape) + (Number: 1~3)】	
		Proximal Diameter 【Increments of 2mm】					
Arch 5 stents (Fenestration)	AR01,02	32~42	32~42	38~42	175	CS1	
	AR03~06					CS1,SS2,CS2	
	AR7W~9W					CS1,SS2,CS2,CS3	
	AR10					SS2,CS2,CS3,CL3	
	AR3L~6L					CS1,SL2,CL2	
	AR7L,8L					CS1,SL2,CL2,CL3	
	PD01,02	24~30	28~30			CS1	
	PD03~06					CS1,SS2,CS2	
	PD3S,4S,6S					CS1,SL2,CL2	
	PD5L						
Arch 5 stents (Non-fenestration)	AR01~06,AR10 AR7W~9W AR3L~8L	As AR above					
	PD01~06 PD3S,4S,6S,PD5L	As PD above					
	Arch 4 stents	PS01~PS03 PS3S,PS3L	24~32			140	NN0
		Distal	DS01~DS05	As PD above		175	
Thoraco Abdominal	DS06~DS14		As AR above				
	TA01~TA09	As PD above		100			
3 stents (Extension)	SS01	24~32					

Unit (mm)
*1 PD skelton: Smaller size of AR skelton.
*2 PD3S,4S,6S: Length of 1stent is approx. 20.5mm (Normal: approx. 25.5mm)

Fenestration Specifications

Graft Outer Diameter	24,26 mm	28,30,32 mm 32-28	34,36 mm 34-30,36-32	38,40,42 mm 38-34,40-36,42-38 42-36,40-34,38-32
CS1				
SS2				
SL2				
CS2				
CL2				
Graft Outer Diameter	28,30,32 mm 32-28	34,36 mm 34-30,36-32	38,40,42 mm 38-34,40-36,42-38 42-36,40-34,38-32	
CS3				
CL3				

Unit in the Figure: mm

Najuta Product Code Description

AR 01 - S 40 CS 1 - 3 U 73

Sheath Effective Length

95 : 950mm
73 : 730mm
58 : 580mm

Sheath Tip Shape

L : LU
U : U
J : J
A : Angle

Sheath Outer Diameter

1 : 21Fr
2 : 22Fr
3 : 23Fr

Number of Fenestration

0 : None
1 : 1
2 : 2
3 : 3

Fenestration Shape

NN : Without Fenestration
SS : For Left Subclavian Artery
SL : For Left Subclavian Artery (Large)
CS : For Left Common Carotid Artery
CL : For Left Common Carotid Artery (Large)

Expanded Stent Graft Diameter

ex.40 : ϕ 40mm
24 : ϕ 24mm

Stent Graft Shape

ex.S : Straight
T : Taper type (4 mm)
V : Taper type (6 mm)

Skeleton Number

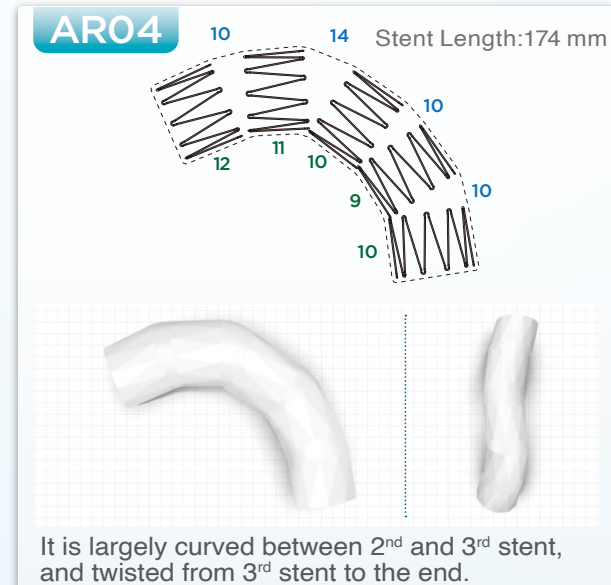
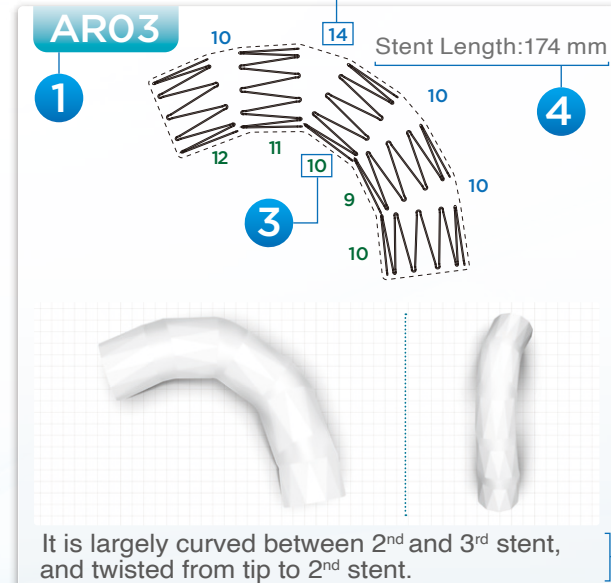
ex. 01 : No.1
12 : No.12
7L : No.7LW

Skeleton Type

AR : For Arch (Large)
PD : For Arch (Small)
PS : For Arch (4 Z-Stents)
DS : For Descending Aorta
TA : For Thoraco-Abdominal
SS : For Extension

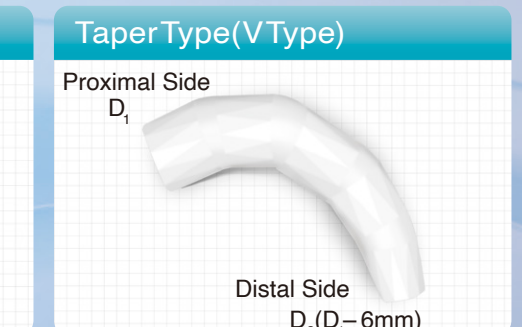
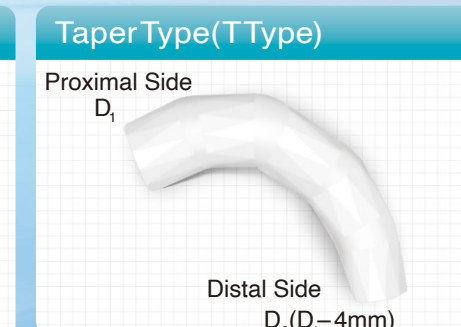
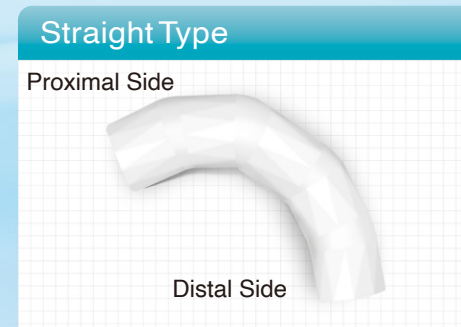
Viewpoint of Product Code

For Arch (Large)



6	7	8
Skeleton	Graft	Fenestration
AR03	S 32mm	CS1
AR04	S 34mm	CS2
	S 36mm	SS2
	S 38mm	NN0 (Without Fenestration)
	S 40mm	
	S 42mm	
	T 32-28mm	
	T 34-30mm	
	T 36-32mm	
	T 38-34mm	
	T 40-36mm	
	T 42-38mm	
	V 38-32mm	
	V 40-34mm	
	V 42-36mm	

- 1 Skeleton Name
- 2 Strut Length (mm)
- 3 Threads of Stent Skeleton
- 4 Total Length of Stent (mm)
- 5 Feature
- 6 Applicable Skeleton Type
- 7 Stent Graft Diameter
S : Straight Type
T : Taper Type (4 mm)
V : Taper Type (6 mm)
*Please see below for details.
- 8 Fenestration Specification
- 9 Selectable Fenestration Code



AR01

Stent Length:174 mm

It is largely curved between 1st and 2nd stent, and gently twisted from 2nd stent to the end.

Fenestration

CS1

AR02

Stent Length:174 mm

It is largely curved between 1st and 2nd stent, and largely twisted from 2nd stent to the end.

Fenestration

CS1

Skeleton	Graft	Fenestration
AR01	S 32mm	CS1
AR02	S 34mm	NN0 (Without Fenestration)
	S 36mm	
	S 38mm	
	S 40mm	
	S 42mm	
	T 32-28mm	
	T 34-30mm	
	T 36-32mm	
	T 38-34mm	
	T 40-36mm	
	T 42-38mm	
	V 38-32mm	
	V 40-34mm	
	V 42-36mm	

AR3L

Stent Length:176 mm

It is largely curved between 2nd and 3rd stent, and twisted from tip to 2nd stent.

Fenestration

CS1

SL2

CL2

AR4L

Stent Length:176 mm

It is largely curved between 2nd and 3rd stent, and twisted from 3rd stent to the end.

Fenestration

CS1

SL2

CL2

Skeleton	Graft	Fenestration
AR3L	S 32mm	CS1
AR4L	S 34mm	SL2
	S 36mm	CL2
	S 38mm	NN0 (Without Fenestration)
	S 40mm	
	S 42mm	
	T 32-28mm	
	T 34-30mm	
	T 36-32mm	
	T 38-34mm	
	T 40-36mm	
	T 42-38mm	
	V 38-32mm	
	V 40-34mm	
	V 42-36mm	

AR03

Stent Length:174 mm

It is largely curved between 2nd and 3rd stent, and twisted from tip to 2nd stent.

Fenestration

CS1

CS2

SS2

AR04

Stent Length:174 mm

It is largely curved between 2nd and 3rd stent, and twisted from 3rd stent to the end.

Fenestration

CS1

CS2

SS2

Skeleton	Graft	Fenestration
AR03	S 32mm	CS1
AR04	S 34mm	CS2
	S 36mm	SS2
	S 38mm	NN0 (Without Fenestration)
	S 40mm	
	S 42mm	
	T 32-28mm	
	T 34-30mm	
	T 36-32mm	
	T 38-34mm	
	T 40-36mm	
	T 42-38mm	
	V 38-32mm	
	V 40-34mm	
	V 42-36mm	

AR05

Stent Length:174 mm

It is largely curved between 2nd and 3rd stent, largely twisted from tip to 2nd stent and 3rd stent to the end.

Fenestration

CS1

CS2

SS2

AR06

Stent Length:174 mm

It is largely curved between 2nd and 3rd stent, and gently twisted from tip to 2nd stent.

Fenestration

CS1

CS2

SS2

Skeleton	Graft	Fenestration
AR05	S 32mm	CS1
AR06	S 34mm	CS2
	S 36mm	SS2
	S 38mm	NN0 (Without Fenestration)
	S 40mm	
	S 42mm	
	T 32-28mm	
	T 34-30mm	
	T 36-32mm	
	T 38-34mm	
	T 40-36mm	
	T 42-38mm	
	V 38-32mm	
	V 40-34mm	
	V 42-36mm	

AR5L Stent Length:176 mm

It is largely curved between 2nd and 3rd stent, largely twisted from tip to 2nd stent and 3rd stent to the end.

AR6L Stent Length:176 mm

It is largely curved between 2nd and 3rd stent, and gently twisted from tip to 2nd stent.

Skeleton	Graft	Fenestration
AR5L	S 32mm	CS1
AR6L	S 34mm	SL2
	S 36mm	CL2
	S 38mm	NN0 (Without Fenestration)
	S 40mm	
	S 42mm	
	T 32-28mm	
	T 34-30mm	
	T 36-32mm	
	T 38-34mm	
	T 40-36mm	
	T 42-38mm	
	V 38-32mm	
	V 40-34mm	
	V 42-36mm	

AR7L Stent Length:176 mm

It is largely curved between 3rd and 4th stent, and twisted from tip to 3rd stent.

AR8L Stent Length:176 mm

It is largely curved between 3rd and 4th stent, and twisted from 4th stent to the end.

Skeleton	Graft	Fenestration
AR7L	S 32mm	CS1
AR8L	S 34mm	SL2
	S 36mm	CL2
	S 38mm	CL3
	S 40mm	NN0 (Without Fenestration)
	S 42mm	
	T 32-28mm	
	T 34-30mm	
	T 36-32mm	
	T 38-34mm	
	T 40-36mm	
	T 42-38mm	
	V 38-32mm	
	V 40-34mm	
	V 42-36mm	

Fenestration

CS1 SL2 CL2

Fenestration

CS1 SL2 CL2 CL3

AR7W Stent Length:174 mm

It is largely curved between 3rd and 4th stent, and twisted from tip to 3rd stent.

AR8W Stent Length:174 mm

It is largely curved between 3rd and 4th stent, and twisted from 4th stent to the end.

Skeleton	Graft	Fenestration
AR7W	S 32mm	CS1
AR8W	S 34mm	CS2
	S 36mm	CS3
	S 38mm	SS2
	S 40mm	NN0 (Without Fenestration)
	S 42mm	
	T 32-28mm	
	T 34-30mm	
	T 36-32mm	
	T 38-34mm	
	T 40-36mm	
	T 42-38mm	
	V 38-32mm	
	V 40-34mm	
	V 42-36mm	

AR9W Stent Length:176 mm

It is largely curved between 3rd and 4th stent, and gently twisted from tip to 3rd stent.

AR10 Stent Length:178 mm

It is largely curved between 2nd and 4th stent, and gently twisted from tip to the end.

Skeleton	Graft	Fenestration
AR9W	S 32mm	CS1 (Only AR9W)
AR10	S 34mm	CS2
	S 36mm	CS3
	S 38mm	SS2
	S 40mm	CL3 (Only AR10)
	S 42mm	NN0 (Without Fenestration)
	T 32-28mm	
	T 34-30mm	
	T 36-32mm	
	T 38-34mm	
	T 40-36mm	
	T 42-38mm	
	V 38-32mm	
	V 40-34mm	
	V 42-36mm	

Fenestration

CS1 CS2 CS3 SS2

Fenestration

CS1 CS2 CS3 SS2 CL3